

PTO FORM 4/92

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE
STATEMENT
GROUP:

ATTY DOCKET:

19789-8

SERIAL NO.:

10/031,731

APPLICANT(S):

Wim J. van Ooij, et al.

FILING DATE:

January 22, 2002

FOR: Acyloxy Silane Treatments for Metals
PAGE 1 OF PAGE 6

Exam. Init.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
SL	2 7 5 1 3 1 4	11/03/54	Keil		
	3 0 2 2 1 9 6	12/04/57	Jenkins et al.		
	3 2 4 6 6 7 1	04/19/66	Stein et al.		
	3 4 7 6 8 2 6	11/04/69	Millen		
	3 8 1 6 1 5 2	06/11/74	Yates		
	3 8 4 2 1 1 1	10/15/74	Meyer-Simon et al.		
	3 8 7 3 3 3 4	03/25/75	Lee et al.		
	3 8 7 9 2 0 6	04/22/75	Nestler et al.		
	3 9 6 0 8 0 0	06/01/76	Kohl, Jr.		
	4 0 0 0 3 4 7	12/28/76	Ranney et al.		
	4 0 1 5 0 4 4	03/29/77	Ranney et al.		
	4 0 5 9 4 7 3	11/22/77	Okami		
	4 0 6 4 3 1 3	12/20/77	Takiguchi et al.		
	4 1 5 1 1 5 7	04/24/79	Williams et al.		
SL	4 1 5 2 3 4 7	05/01/79	Pletka et al.		
	4 1 7 9 5 3 7	12/18/79	Rykowski		

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
2 1 1 0 4 6 1	07/26/94	Canada		
0 4 3 5 7 8 1 A2	07/03/91	EPO		
0 5 3 3 6 0 6 A1	03/24/93	EPO		
0 5 7 9 2 5 3 B1	0/19/94	EPO		

OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

✓	Buchwalter, L.P., et al. Adhesion of polyimides to ceramics: Effects of aminopropyltriethoxysilane and temperature and humidity exposure on adhesion, <i>J. Adhesion Sci. Technol.</i> , Vol. 5, No. 4, pp. 333-343 (1991) 12/91
✓	Cruse, R. W., et al., Effect of Polysulfidic Silane Sulfur on Rolling Resistance, <i>Rubber & Plastic News</i> , pp. 14-17 (April 21, 1997)
✓	Henriksen, P.N., et al. Inelastic electron tunneling spectroscopic studies of alkoxysilanes adsorbed on alumina, <i>J. Adhesion Sci. Technol.</i> , Vol. 5, No. 4, pp.321-331 (1991) 12/91
✓	Homstrom, S.E., et al., Paint Adhesion and Corrosion Performance of Chromium-Free Pretreatment of 55% Al-Zn-coated Steel, <i>J. Adhesion Sci. Technol.</i> Vol. 10, No. 9, pps. 883-904 (1996) 12/96
✓	Homstrom, S.E., et al., Characterization of Thin Films of Organofunctional and Non-Functional Silanes on 55Al-43, 4Zn-1.6Si Alloy Coated Steel, <i>ECASIA 97</i> , pp. 987-990 (1997) - 12/97

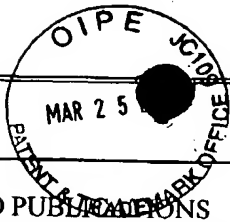
EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

S. Kastler

8-04



PTO FORM 4/92

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE
STATEMENT
GROUP:

ATTY DOCKET: 19789-8
SERIAL NO.: 10/031,731
APPLICANT(S): Wim J. van Ooij, et al.
FILING DATE: January 22, 2002

FOR: Acyloxy Silane Treatments for Metals
PAGE 2 OF PAGE 6

Exam. Init.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
SK	4 2 1 0 4 5 9	07/01/80	Williams et al.		
	4 2 3 1 9 1 0	11/04/80	Plueddemann		
	4 2 4 3 7 1 8	01/06/81	Murai et al.		
	4 3 1 5 9 7 0	02/16/82	McGee		
	4 4 0 1 5 0 0	08/30/83	Hamada et al.		
	4 4 0 9 2 6 6	10/11/83	Wieczorrek et al.		
	4 4 4 1 9 4 6	04/10/84	Sharma		
	4 4 5 7 9 7 0	07/03/84	Das et al.		
	4 4 6 1 8 6 7	07/24/84	Surprenant		
	4 4 8 9 1 9 1	12/18/84	Chung, deceased		
	4 5 3 4 8 1 5	08/13/85	Hamada et al.		
	4 6 1 8 3 8 9	10/21/86	Agodoa		
SH	4 6 8 1 6 3 6	07/21/87	Saito et al.		

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
SK	✓ 3 4 4 3 9 2 6A1	06/12/86	Germany		
	✓ 53 3 0 7 6	02/02/78	Japan		
	✓ 56 1 6 1 4 7 5	12/11/81	Japan		
	✓ 58 5 2 0 3 6	11/19/81	Japan		
	✓ 60 2 0 8 4 8 0	10/21/85	Japan		
ca	✓ 60 8 1 2 5 6	05/09/85	Japan		

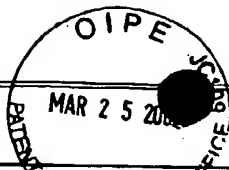
OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

SK	✓	Luginsland, H. D., Reactivity of the Sulfur Functions of the Disulfane Silane TESPD and the Tetrasulfane Silane TESPT, presented at a meeting of the Rubber Division, American Chemical Society, Chicago, Illinois (April 13-16, 1999)
	✓	Plueddemann, Edwin P., Silane primers for epoxy adhesives, <i>J. Adhesion Sci. Technol.</i> , Vol. 2, No. 3, pp. 179-188 (1988) 12/88
	✓	Plueddemann, Edwin P., Reminiscing on Silane Coupling Agents, <i>J. Adhesion Sci. Technol.</i> Vol. 5, No. 4, pp. 261-277 (1991) 12/91
SK	✓	Plueddemann, Edwin P., et al. Adhesion Enhancing Additives for Silane Coupling Agents, 42nd Annual Conference, Composites Institute, The Society of the Plastics Industry, Inc., (February 2-6, 1987)

EXAMINER: DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

S. Kastler

8104



PTO FORM 4/92

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE
STATEMENT
GROUP:

ATTY DOCKET: 19789-8
SERIAL NO.: 10/031,731
APPLICANT(S): Wim J. van Ooij, et al.
FILING DATE: January 22, 2002

FOR: Acyloxy Silane Treatments for Metals
PAGE 3 OF PAGE 6

Exam. Init.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
9	4 7 1 9 2 6 2	01/12/88	Plueddemann	X	X
	4 8 6 3 7 9 4	09/05/89	Fujii et al.		
	5 0 5 1 1 2 9	09/24/91	Cuthbert et al.		
	5 0 7 3 1 9 5	12/17/91	Cuthbert et al.		
	5 0 7 3 4 5 6	12/17/91	Palladino		
	5 1 0 8 7 9 3	04/28/92	van Ooij et al.		
	5 2 0 3 9 7 5	04/20/93	Richardson		
	5 2 1 7 7 5 1	06/08/93	King et al.		
	5 2 2 1 3 7 1	06/22/93	Miller		
2	5 2 9 2 5 4 9	03/08/94	van Ooij et al.		

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
60 2 1 3 9 0 2	10/25/85	Japan	X	X
62 7 5 3 8	01/14/87	Japan		
62 5 7 4 7 0	03/13/87	Japan		
63 3 4 7 9 3	07/12/88	Japan		
63 9 7 2 6 6	04/27/88	Japan		
63 9 7 2 6 7	04/27/88	Japan		

OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

9	✓	Pu, Z., et al., Hydrolysis Kinetics and Stability of Bis (Triethoxysilyl) Ethane in Water-Ethanol Solution by FTIR Spectroscopy, <i>Journal of Adhesion Science and Technology</i> (1996) 12196
1	✓	Sabata, A., et al., Trends toward a better understanding of the interface in painted metals, <i>Trends in Corrosion Research</i> , 1, pp. 181-193 (1993) 12193
1	✓	Sabata, A., et al., The interphase in painted metals pretreated by functional silanes, <i>J. Adhesion Sci. Technol.</i> , Vol. 7, No. 11, pp. 1153-1170 (1993) 12193
2	✓	Sabata, A. Et al., TOFSIMS Studies of Cleaning Procedures and Silane Surface Treatments of Steels, <i>Journal of Testing and Evaluation</i> , JTRVA, Vol. 23, No. 2, pp. 119-125 (March 1995)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

S. Kuntler

8-04

PTO FORM 4/92

MAR 2 5 2002

FORM PTO-1449
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE
STATEMENT
GROUP:

ATTY DOCKET: 19789-8
SERIAL NO.: 10/031,731
APPLICANT(S): Wim J. van Ooij, et al.
FILING DATE: January 22, 2002

FOR: Acyloxy Silane Treatments for Metals
PAGE 4 OF PAGE 6

Exam. Init.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
SR	5 3 2 2 7 1 3	06/21/94	van Ooij et al.		
	5 3 2 6 5 9 4	07/05/94	Sabata et al.		
	R E 3 4 6 7 5	07/26/94	Plueddemann deceased		
	5 3 6 3 9 9 4	11/15/94	Angeline		
	5 3 8 9 4 0 5	02/14/95	Purnell et al.		
	5 3 9 3 3 5 3	02/28/95	Bishop		
	5 4 0 5 9 8 5	04/11/95	Parker et al.		
	5 4 1 2 0 1 1	05/02/95	Morris et al.		
	5 4 3 3 9 7 6	07/18/95	van Ooij et al.		
	5 4 5 5 0 8 0	10/03/95	van Ooij et al.		
	5 4 6 6 8 4 8	11/14/95	Childress		
	5 4 6 8 8 9 3	11/21/95	Parker et al.		

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
5 3 3 2 7 5	05/19/93	Japan		
6 1 8 4 7 9 2	07/05/94	Japan		
WO 98 3 0 7 3 5	07/16/98	PCT		
WO 99 2 0 6 8 2	04/29/99	PCT		
WO 99 2 0 7 0 -5	04/29/99	PCT		

OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

✓	van Ooij, W. J., et al. Characterization of Films of Organofunctional Silanes by ToF-SIMS, <i>Surface and Interface Analysis</i> , Vol. 20, pp.475-484 (1993)
✓	van Ooij, W. J., et al. Modifications of the Interface Between Paints and Stainless Steels by Means of an Interphase Crosslinked Organofunctional, <i>Materials Research Society Symposium Proceedings</i> , Vol. 304, pp. 155-160, (1993) 12/93
✓	van Ooij, W. J., et al. Novel Silane-Based Pretreatments of Metals to Replace Chromate and Phosphate Treatment, <i>2nd Annual Advanced Techniques for Replacing Chromium: An Information Exchange</i> , prepared by David S. Vizlay, Concurrent Technologies Corp. NDCEE, Seven Springs Mountain Resort, Champion, PA (November 7-8, 1995) pp. 287-310
✓	van Ooij, W. J., et al. On the Use, Characterization and Performance of Silane Coupling Agents Between Organic Coatings and Metallic or Ceramic Substrates, <i>American Institute of Physics</i> , pp. 305-321 (1996) 12/96
✓	van Ooij, W. J., et al., Silane-Based Pretreatments of Al and its Alloys as Chromate Alternatives, <i>Aluminium Surface Science Technology</i> , "Elzenveld" Antwerp-Belgium, (May 12-15, 1997)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

S. Kastler

8-04

PTO FORM 4/92

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE
STATEMENT
GROUP:

ATTY DOCKET: 19789-8
SERIAL NO.: 10/031,731
APPLICANT(S): Wim J. van Ooij, et al.
FILING DATE: January 22, 2002

FOR: Acyloxy Silane Treatments for Metals
PAGE 5 OF PAGE 6

Exam. Init.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
8	5 5 2 0 7 6 8	05/28/96	Crook et al.		
	5 6 0 3 8 1 8	02/18/97	Brent et al.		
	5 6 2 2 7 8 2	04/22/97	Poutasse, III et al.		
	5 6 6 0 8 8 4	08/26/97	Crook et al.		
	5 6 3 3 0 3 8	05/27/97	Ruschau		
	5 6 3 9 5 5 5	06/17/97	Bishop		
	5 7 0 0 5 2 3	12/23/97	Petrole et al.		
	5 7 5 0 1 9 7	05/12/98	van Ooij et al.		
	5 7 5 9 6 2 9	06/02/98	van Ooij et al.		
	5 7 8 9 0 8 0	08/04/98	Grimberg et al.		
	5 8 5 1 3 7 1	12/22/98	Steinbrecher et al.		
9	5 9 0 7 0 1 5	05/25/99	Sexsmith		

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
WO 99 6 7 4 4 4	29 Dec 1999	PCT		
WO 00 3 8 8 4 4	6 July 2000	PCT		

OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

✓	van Ooij, W. J. et al., Silane Coupling Agent Treatments of Metals for Corrosion Protection, Presented at the Fourth Interantional Forum and buiness Development Conference on Surface Modification, Couplants and Adhesion Promoters, Adhesion Coupling Agent Technology 97, Boston, MA (September 22-24, 1997)
✓	van Ooij, W. J., et al., Pretreatment of Metals for Painting by Organofunctional Silanes, Extended Abstract of Paper Presented at 1997 International Symposium on Advances in Corrosion Protection by Organic Coatings, Noda, Japan (October 29-31, 1997)
⊗	van Ooij, W. J., et al., Rubber to Metal Bonding, Presented at the International Conference on Rubbers, Calcutta, India (December 12-14, 1997)
✓	van Ooij, W. J., et al., Bonding Rubber to Metals by Silanes, Presented at Rubber Division, American Chemical Society 155th Technical Meeting, Chicago, IL. (April 13-16, 1999)
✓	Walker, P., Organosilanes as adhesion promoters, <i>J. Adhesion Sci. Technol.</i> Vol 5, No. 4, pp. 279-305 (1991) 12691
⊗	Wu, G. L. Et al. Alcoholysis of Chlorosilanes and the Synthesis of Silance Coupling Agents, <i>Inst. Chem., Adad. Sin., Peking, People Rep. China, Hua Hsueh Hsueh Pao</i> (1980) (Abstact Only) 12180
✓	Yuan, W., et al., Characterization of Organofunctional Silane Films on Zinc Substrates, Submitted to <i>Journal of Colloid and Interface Science</i> , (August 30, 1996)
✓	Zhang, B. C., et al., Charterization of Silane Films Deposited on Iron Surfaces, Submitted to <i>Langmuir</i> , First Revision, (May 3, 1996)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

S. Kastner

8104

PTO FORM 4/92

MAR 2 5 2002

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE
STATEMENT
GROUP:ATTY DOCKET: 19789-8
SERIAL NO.: 10/031,731
APPLICANT(S): Wim J. van Ooij, et al.
FILING DATE: January 22, 2002FOR: Acyloxy Silane Treatments for Metals
PAGE 6 OF PAGE 6

Exam. Init.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
4	6 0 5 7 0 4 0	05/02/00	Hage		
	6 0 7 1 5 6 6	06/06/00	Brown et al.		
8	6 1 3 2 8 0 8	10/17/00	Brown et al.		

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS

OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

9	Abstract of Japanese patent number 62-79732 (10/04/94)
	Abstract of Japanese patent number 41-6174 (04/08/92)
	Abstract of Japanese patent number 62-216727 (09/24/87)
	Abstract of Japanese patent number 40-46932 (02/17/92)
	Comyn, J., et al., An examination of the interaction of silanes containing carbon-carbon double bonds with aluminum oxide by inelastic electron tunneling spectroscopy, <i>Int. J. Adhesion</i> (1990), 10(1), 13-18 (abstract only)
	Kurth, D.G., et al., Monomolecular layers and thin films of silane coupling agents by vapor-phase adsorption on oxidized aluminum, <i>J. Phys. Chem</i> (1992), 96(16), 6707-12 (abstract only)
	van Ooij, W. J., Silane-based Metal Pretreatments to Replace Phosphates and Chromates; copy of overhead slides presented at the 3rd Annual Advanced Techniques for Replacing Chromium: An Information Exchange and Technology Demonstration, November 4-6, 1996
	Abstract of Japanese patent number 59-185779 (10/22/84)
	Abstract of Japanese patent number 07-329104 (12/19/95)
	Abstract of Japanese patent number 62-83034 (04/16/87)
8	Abstract of Japanese patent number 53-232 (01/05/78)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

S. Kastner

8104